

MAGNETIC STORM SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS (PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS)

October 2003

Storm Sudden Commencements (SSC)			Solar Flare Effects (sfe)		
Day	Time	Quality: Station Group*	Day	Begin-End	Station(s)
24	1524	A: VAL* DOU COI* SPT* GUI HYB	01	0445-0511	MMB+ KAK+ HTY+ KNY+
		B: NGK* BDV* CLF* NAG* GCK*	02	0654-0706	HTY+
		C: HRB EBR	02	0832-0910	GUI HYB
26	1908	B: GUI CNB*	05	1521-1542	GUI
		C: NGK* BDV* CLF NAG* GCK EBR SPT* HYB	06	1042-1109	GUI
		SI: VAL	13	1247-1300	GUI
			14	1910-1940	GUI
28	0206	A: NAG COI	23	1300-1326	GUI
		B: SOD* VAL EBR SPT GUI	24	0506-0531	MMB+ KAK+ HTY+ KNY+
		C: NGK* DOU BDV* CLF GCK	24	1332-1432	GUI
29	0611	A: NUR* NGK* VAL DOU BDV* CLF HRB	26	0610-0710	MMB+ KAK+ HTY+ KNY+ HYB
		NAG* GCK MMB* EBR* COI* SPT* KAK*	26	0624-0635	NGK+
		HTY* KNY* GUI* HYB CNB*	26	0838-0903	SPT
			26	0927-0955	GUI
			27	1226-1315	GUI
			28	1101-1203	NGK+ BDV+

REPORTING OBSERVATORIES (up to the 1st of December 2003):

SOD NUR NGK VAL DOU BDV CLF HRB NAG GCK MMB EBR COI SPT KAK HTY KNY GUI HYB GNA CNB

Three-letter codes identify each observatory. Reporting stations have been grouped by the character of the observed event. The letter A means very remarkable; B means fair, but unmistakable; C means very poor, doubtful; and - means no quality figure given. The * means that the SSC, at least in one component, was preceded by a small reversed impulse. SSCs are given only when five or more stations report the event. SFEs include all reports. If an SFE is confirmed by solar or ionospheric events, the name of the station is identified with a plus sign (+).

Note that we have included data of the Antarctic Station LIVINGSTONE (62° 39' 44" S, 60°23' 41" W) – Luis F.

Criterion on Provisional SSC data

From December 2002, we are giving as provisional SSC only the SSC reported by more than 4 observatories. This is a change with respect to the previous criterion according to which we used to give the SSC reported by more than 5 observatories. The change, pending IAGA confirmation, has been provisionally taken because of the decreasing number of reporting observatories in order to keep the homogeneity of the data. The idea is to keep the same minimum percentage of the observatories reporting an SSC, relative to the total number of reporting observatories, to be considered as a probable SSC.